

# Schedule

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Certificate No. : LA-1988-0023-B-1  
Issue No. : 15  
Date : 26 November 2024  
Expiry Date : 27 October 2026  
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FIELD OF TESTING : Civil Engineering Testing

MATERIALS / PRODUCTS TESTED	TESTS / PROPERTIES	STANDARD METHODS / TECHNIQUES / EQUIPMENT
A i Concrete Hardened Concrete	1 Density	BS EN 12390-7: 2019
	2 Compressive strength of cubes	BS EN 12390-3: 2019
	3 Rapid Chloride Penetration Test	ASTM C 1202: 2022
	4 Water penetration	DIN 1048 Part 5: 1991 BS EN 12390-8: 2019
	5 Compressive strength test on Concrete Core	BS 1881: Part 120: 1983 BS EN 12504 Part 1: 2019 BS EN 12390 Part 3: 2019
	6 Tensile Splitting Strength	BS EN 12390-6: 2023
	7 Measuring the Flexural Tensile Strength of Metallic Fibered Concrete	BS EN 14651: 2005+ A1: 2007
	8 Flexural Strength	BS EN 12390-5 :2019
	9 Petrographic examination of Hardened Concrete	ASTM C856 / C856M-20
	10 Determination of water Absorption	BS 1881-122:2011+A1:2020
ii Fresh Concrete	1 Dimensional Measurement on Cube Mould	BS EN 12390-1: 2021 SS78: Pt A8: 1987
B. Aggregates	1 Particle size distribution by sieving	BS EN 933: Part 1: 2012
	2 Clay, Slit & Dust Content (Decantation)	BS EN 933: Part 1: 2012
	3 Determination of particle shape	BS EN 933-4: 2008

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MATERIALS / PRODUCTS TESTED	TESTS / PROPERTIES	STANDARD METHODS / TECHNIQUES / EQUIPMENT		
	4	Determination of Shell content	BS EN 933-7: 1998	
	5	Determination of bulk density & voids	BS EN 1097-3: 1998	
	6	Determination of Particle density & Water Absorption	BS EN 1097-6: 2022	
	7	Flakiness Index	BS EN 933-3:2012	
	8	Moisture Content	BS EN 1097-5: 2008	
	9	LA Abrasion Value	BS EN 1097-2: 2020	
	10	Mortar Bar Method	ASTM C 1260- 22	
	11	Drying Shrinkage	BS EN 1367-4:2008	
	12	Crushing value	BS 812: Part 110: 1990	
	13	Soundness	ASTM C88/C88M-18 BS EN 1367-2:2009(E)	
	14	Petrographic	BS EN 932-3: 2022 ASTM C295M-19	
	C. Cement (Physical)	1	Setting time	BS EN 196-3: 2016
		2	Soundness	BS EN 196-3: 2016
		3	Fineness	BS EN 196-6: 2018
4		Compressive strength	BS EN 196-1: 2016	
D Steel Reinforcement Bar	1	Tensile Test	SS2: 1987	
	2	Bend Test	SS2: Pt 1: 1999	
	3	Rebend Test	SS2: Pt 2: 1999 SS2: Pt 3: 1987 SS 456: 1999 SS 427: 1998 BS 4449: 2005 + A3: 2016 BS EN ISO 6892-1: 2019 BS EN ISO 15630-1:2019 SS 560: 2010, 2016 BS 4482: 2005	

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MATERIALS / PRODUCTS TESTED	TESTS / PROPERTIES	STANDARD METHODS / TECHNIQUES / EQUIPMENT
E Seven wire prestressing strand/high tensile steel wire prestressing steel	1 Full Tensile Test	BS 5896: 1980 BS 5896: 2012 ASTM A416/416 M-2018 SS475: Pt 1 & 4: 2000 BS EN ISO 6892-1: 2019 BS EN ISO 15630-3:2019 ASTM A1061/A1061M-20ae1
F Welded Steel Fabric	1 Tensile Test 2 Bend Test 3 Reband Test 4 Weld Shear Test	SS 18: Pt 1: 1999 SS 18: Pt2: 1970(1981) SS 32: Pt 1: 1999 SS 32: Pt 2: 1986 SS 427: 1998 SS 456: 1999 SS 561:2010(2022) + A2:2022 BS EN ISO 15630-1: 2019 BS EN ISO 15630-2: 2019 BS EN ISO 6892-1: 2019 BS 4483: 2005
G Reinforcement Steel Bar with Coupler	1 Tensile Load 2 Tensile Test & Slip Test (Permanent Elongation)	MEC-S029-R2-OCT18 AUG 22 (BS 8110 -1: 1997) ISO 15835-2: 2018
H Hardened concrete NDT	1 Covermeter Test 2 Penetration Resistance Test	BS 1881: Pt 204: 1988 ASTM C803 / 803M-23
I Structural steel / Metallic material	1 Tensile test	ASTM A370 – 22 BS EN ISO 6892-1: 2019 JIS Z 2241: 2022 SS 456: 1999
J Structural Fixing	1 Pull out Test	BS 5080 : Part 1 : 1993 BS EN 13146-10:2017 Cast/ndtconc/tm/002/Nov 2004

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## Approved Signatories

Mr Mohd Nizam	For Ai1 to Ai3 & B1 to B9
Mr Kwek Yeow Seah	For Ai1 to Ai2, B1 to B8, H1 & H2
Ms Norlaila Bte Gulam Akbar	For all tests (except B14 & Ai9), Ai10 & J1
Mr Mohd. Nazrul Bin Adnan	For Ai1 to Ai2, Ai6-Ai7, Aii1, D1 to D3, E1, F1, H1 & H2
Ms Nurel Mazleena	For Ai1 to Ai2, B1 to B9, B10 to B12
Mr Mohamad Zaki bin Mat Riffin	For D1 to D3, E1, F1 to F4, G1, G2 & I1
Mr Mohamad Shahrul Aizie bin Pauzi	For Ai8, Aii1, B1 to B9, B12, Ai10 & J1
Mr Muhammad Nazreen bin Mohd Tarmizi	For Ai9 & B14
Mr Mohd Farhan Amir Bin Abu Talib	For D1 to D3, E1, F1 to F4, G1, G2 & I1

## Note:

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025. A laboratory's fulfilment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and **management system requirements** that are necessary for it to consistently deliver technically valid test results. The **management system requirements** in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001.